

COAL MINE METHANE AND COALBED METHANE TECHNICAL WORKSHOP

AGENDA

Agencia Nacional de Hidrocarburos (ANH)

Av. Calle 26 No 59-65, Piso 2

Bogotá, Colombia

4 June 2015

Opening Ceremony

08:00 – 08:30 **Welcome Addresses**

Tomás González, Ministry of Mines and Energy

Natalia Gutierrez, National Mining Agency

Mauricio De La Mora, National Hydrocarbons Agency (ANH)

Felicia A. Ruiz, U.S. Environmental Protection Agency

Introductory Concepts

08:30 – 09:30 **Introduction to Unconventional Gas Development: Coalbed Methane (CBM) and Coal Mine Methane (CMM)**

Roger Tyler, the ARC Group

09:30 – 10:00 **Coalbed Methane Resources in Colombia**

Dr. William Garzón, Technical Vice President, ANH

10:00 – 10:15 **Q&A Session**

10:15 – 10:45 **Coffee/Tea Break**

Policy and Ownership Issues

10:45 – 11:15 **Regulatory Developments and Ownership Issues Impacting Future CBM Recovery and Utilization Projects in Colombia**

Alberto Garcia, Vice President Oil & Gas, Drummond Ltd. Colombia

11:15 – 11:45 **CMM Ownership and Issues: A Global Overview**

Meredydd Evans, Pacific Northwest National Laboratory

11:45 – 12:30 **Open Discussion on CMM/CBM Policy and Ownership Issues**

12:30 – 13:30 **Lunch**

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CMM Project Development

13:30 – 14:00 CMM Resource Assessments and their Impact on Project Development

Raymond C. Pilcher, Raven Ridge Resources

14:00 – 14:30 Best Practices for Gas Drainage in Underground and Surface Mines

Jon Kelafant, Advanced Resources International

14:30 – 15:00 Best Practices for CMM Utilization – End Use Options

Clark Talkington, Advanced Resources International

15:00 – 15:15 Q&A Session

15:15 – 15:45 *Coffee/Tea Break*

CMM Project Development: International Experiences and the Path Forward in Colombia

15:45– 17:00 The Path Forward for CBM/CMM Development in Colombia

Introductory presentations on international experiences, followed by a roundtable discussion featuring public and private sector stakeholders involved in the Colombian CMM and CBM markets

17:00 Concluding Remarks and Adjournment